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 GB 1996-19699 A 19960920
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 WO 1997-GB3507 A 19971219

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 AU 9743104 A1 19980414
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 DE 69702673 C0 20000831
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 EP 939910 A1 19990908
 EP 939910 B1 20000726
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GB 9626442 A0 19970205
 GB 2331971 A1 19990609
 GB 2331971 B2 19991117
 GB 9726974 A0 19980218
 GB 2332275 A1 19990616
 GB 2332275 B2 20010214
 GB 9905764 A0 19990505
 NO 310127 B1 20010521
 NO 9902701 A 19990603
 NO 9902701 A0 19990603
US 6353577 BA 20020305
US 2002126575 AA 20020912
 WO 9812577 A1 19980326
 WO 9828636 A1 19980702

6 priorities, 14 applications, 23 publications

28-342-0373
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(X) (1) WO A 97 30361
 (X) (2) US 5619474 WO 98/28636 = PCT GB97/03507

(X) (3) US 3774570

(X) (4) US 5443027

(X) (5) EP A-0193215

(X) (6) US 4745583

WO 98 28636

(X) PCT / GB 97 / 03507

(X) 892 4711194 Fowler

(X) 6011753

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20 Dec 1999 Dec Page 1 Relevance Date

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Foreign Application

UK 9626442.9

Dec 170/1996

PCT
Filed

→ 19 Dec 1997

WO 98/28636

July 02, 1998

PCT GB97/1035073

File Dec 20, 1997

Priority To 9626442.9

UK 9726974.0

File Dec 19, 1997

GB 2331971

PUBDATE June 06, 1999

FILE

19 Dec 1997

WO 9812577

WO 9828636

L2 ANSWER 1 OF 9 WPIX COPYRIGHT 2003 THOMSON DERWENT on STN
AN 1998-377798 [32] WPIX
DNN N1998-295320
TI Control device for marine seismic streamer - has attached control device with controllable wings which are rotated to control lateral position and depth.
DC S03 V06 W06
IN BITTLESTON, S H
PA (SLMB) SCHLUMBERGER HOLDINGS LTD; (SLMB) SERVICES PETROL SCHLUMBERGER; (GECO-N) GECO AS; (BITT-I) BITTLESTON S H
CYC 79
PI WO 9828636 A1 19980702 (199832)* EN 16p
RW: AT BE CH DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA
PT SD SE SZ UG ZW
W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GE GH
HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU
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AU 9853305 A 19980717 (199848)
GB 2331971 A 19990609 (199925)
NO 9902701 A 19990603 (199937)
EP 939910 A1 19990908 (199941) EN
R: DE FR IT NL SE
GB 2331971 B 19991117 (199951)
EP 939910 B1 20000726 (200036) EN
R: DE FR IT NL SE
DE 69702673 E 20000831 (200050)
NO 310127 B1 20010521 (200131)
AU 734810 B 20010621 (200141)
US 2002126575 A1 20020912 (200262)
ADT WO 9828636 A1 WO 1997-GB3507 19971219; AU 9853305 A AU 1998-53305 19971219; GB 2331971 A GB 1997-26974 19971219; NO 9902701 A WO 1997-GB3507 19971219, NO 1999-2701 19990603; EP 939910 A1 EP 1997-950296 19971219, WO 1997-GB3507 19971219; GB 2331971 B GB 1997-26974 19971219; EP 939910 B1 EP 1997-950296 19971219, WO 1997-GB3507 19971219; DE 69702673 E DE 1997-602673 19971219, EP 1997-950296 19971219, WO 1997-GB3507 19971219; NO 310127 B1 WO 1997-GB3507 19971219, NO 1999-2701 19990603; AU 734810 B AU 1998-53305 19971219; US 2002126575 A1 Cont of US 1999-284030 19990406, US 2001-893234 20010626
FDT AU 9853305 A Based on WO 9828636; EP 939910 A1 Based on WO 9828636; EP 939910 B1 Based on WO 9828636; DE 69702673 E Based on EP 939910, Based on WO 9828636; NO 310127 B1 Previous Publ. NO 9902701; AU 734810 B Previous Publ. AU 9853305, Based on WO 9828636
PRAI **GB 1996-26442 19961220**
AB WO 9828636 A UPAB: 19980812
The marine seismic streamer is an elongated cable-like structure which is typically several thousand meters long, and contains an array of hydrophones and electronic equipment. The streamer control device (10) has an elongated streamlined body (12) which is mechanically and electrically connected in series with a multi-section streamer (14).
Each end of the body has a connector (16,18). The device has two opposed control surfaces or wings (24), typically moulded from fibre-reinforced plastics, projecting outwards from the body. A control system (26) rotates the wings to control the lateral position and the depth of the streamer.
ADVANTAGE - Improves the control of the lateral position and depth of the streamer.
Dwg.1/5
PI WO 9828636 A1 19980702 (199832)* EN 16p G01V001-38
RW: AT BE CH DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA

STIC SEARCH
Keep in File

PT SD SE SZ UG ZW

W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GE GH
 HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
 NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU

ZW

AU 9853305 A 19980717 (199848)
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R: DE FR IT NL SE

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 AU 734810 B 20010621 (200141) G01V001-38
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ADT WO 9828636 A1 WO 1997-GB3507 19971219; AU 9853305 A AU 1998-53305
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 2001-893234 20010626

FDT AU 9853305 A Based on WO 9828636; EP 939910 A1 Based on WO 9828636; EP
 939910 B1 Based on WO 9828636; DE 69702673 E Based on EP 939910, Based on
 WO 9828636; NO 310127 B1 Previous Publ. NO 9902701; AU 734810 B Previous
 Publ. AU 9853305, Based on WO 9828636

PRAI GB 1996-26442 19961220

L2 ANSWER 2 OF 9 INPADOC COPYRIGHT 2003 EPO on STN

LEVEL 1

AN 184480215 INPADOC ED 20021002 EW 200239 UP 20021002 UW 200239
 TI CONTROL DEVICES FOR CONTROLLING THE POSITION OF A MARINE SEISMIC STREAMER
 IN BITTLESTON SIMON HASTINGS
 INS BITTLESTON SIMON HASTINGS
 INA NO
 PA BITTLESTON SIMON HASTINGS
 PAS BITTLESTON SIMON HASTINGS
 PAA NO
 DT Patent
 PIT USAA PATENT APPLICATION PUBLICATION (PRE-GRANT)
 PI US 2002126575 AA 20020912
 AI US 2001-893234 A 20010626
 PRAI US 2001-893234 A 20010626
 GB 1996-26442 A 19961220
 US 1999-284030 B1 19990406
 AB A control device or "bird" for controlling the position of a marine seismic streamer is provided with an elongate, partly flexible body which is designed to be electrically and mechanically connected in series with a streamer. In its preferred form, the bird has two opposed wings which are independently controllable in order to control the streamer's lateral position as well as its depth.

PATENT FAMILY INFORMATION

AN 184480215 INPADOC

+-----PRAI-----+
 GB 1996-19699 A 19960920

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US 1999-284030 B1 19990406
 US 2001-893234 A 20010626
 WO 1997-GB2536 W 19970919

WO 1997-GB3507 W 19971219

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 AU 1997-43104 A 19970919
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+-----AI-----+
 AU 1997-43104 A 19970919
 EP 1997-919171 A 19970919
 GB 1996-19699 A 19960920
 GB 1997-26974 A 19971219
 GB 1999-5764 A 19970919
 US 1999-269016 A 19990317
 WO 1997-GB2536 A 19970919
 AU 1998-53305 A 19971219
 DE 1997-69702673 A 19971219
 EP 1997-950296 A 19971219
 GB 1996-26442 A 19961220
 GB 1997-26974 A 19971219
 NO 1999-2701 A 19990603
 US 2001-893234 A 20010626
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 US 2001-893234 A 20010626
 US 2001-893234 A 20010626
 AU 1997-43104 A 19970919
 EP 1997-919171 A 19970919
 GB 1999-5764 A 19970919
 US 1999-269016 A 19990317
 AU 1998-53305 A 19971219
 DE 1997-69702673 A 19971219
 EP 1997-950296 A 19971219
 NO 1999-2701 A 19990603

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 AU 9743104 A1 19980414
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 DE 69702673 C0 20000831

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EP 1997-919171	A	19970919	DE 69702673	T2 20010405
EP 1997-950296	A	19971219	EP 932843	A1 19990804
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			EP 939910	B1 20000726
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			GB 2331971	B2 19991117
			GB 9726974	A0 19980218
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			GB 9905764	A0 19990505
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			NO 9902701	A0 19990603
US 1999-269016	A	19990317	US 6353577	BA 20020305
US 2001-893234	A	20010626	US 2002126575	AA 20020912
WO 1997-GB2536	A	19970919	WO 9812577	A1 19980326
WO 1997-GB3507	A	19971219	WO 9828636	A1 19980702

6 priorities, 14 applications, 23 publications

L2 ANSWER 3 OF 9 INPADOC COPYRIGHT 2003 EPO on STN

LEVEL 2

AN 134498850 INPADOC ED 20010410 EW 200114 UP 20010410 UW 200114
 TI STEUERGERAETE ZUR POSITIONssteUERUNG EINES MEERESSEISMISCHES MESSKABELS
 IN BITTLESTON, HASTINGS
 INS BITTLESTON HASTINGS
 INA NO
 PA SERVICES PETROLIERS SCHLUMBERGER, PARIS; SCHLUMBERGER HOLDINGS LTD., ROAD
 TOWN
 PAS SCHLUMBERGER SERVICES PETROL; SCHLUMBERGER HOLDINGS
 PAA FR; VG
 DT Patent
 PIT DET2 TRANSL. OF THE EUROPEAN PATENT SPECIFICATION
 PI DE 69702673 T2 20010405
 AI DE 1997-69702673 A 19971219
 PRAI GB 1996-26442 A 19961220
 WO 1997-GB3507 W 19971219

PATENT FAMILY INFORMATION

AN 134498850 INPADOC

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US 1999-284030 B1 19990406
 US 2001-893234 A 20010626
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 EP 1997-919171 A 19970919
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 GB 1999-5764 A 19970919
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 WO 1997-GB2536 A 19970919
 AU 1998-53305 A 19971219
 DE 1997-69702673 A 19971219
 EP 1997-950296 A 19971219
 GB 1996-26442 A 19961220
 GB 1997-26974 A 19971219
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 WO 1997-GB3507 A 19971219
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 AU 1997-43104 A 19970919
 EP 1997-919171 A 19970919
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GB 1999-5764	A 19970919	GB 2332275	A1 19990616
		GB 2332275	B2 20010214
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		NO 9902701	A0 19990603
US 1999-269016	A 19990317	<u>US 6353577</u>	BA 20020305
→ US 2001-893234	A 20010626	US 2002126575	AA 20020912
WO 1997-GB2536	A 19970919	WO 9812577	A1 19980326
WO 1997-GB3507	A 19971219	WO 9828636	A1 19980702

6 priorities, 14 applications, 23 publications

L2 ANSWER 4 OF 9 INPADOC COPYRIGHT 2003 EPO on STN

LEVEL 2

AN 112919635 INPADOC ED 20000801 EW 200030 UP 20000801 UW 200030
 TI CONTROL DEVICES FOR CONTROLLING THE POSITION OF A MARINE SEISMIC STREAMER
 IN BITTLESTON, SIMON, HASTINGS
 INS BITTLESTON SIMON HASTINGS
 INA NO
 PA SCHLUMBERGER HOLDINGS LIMITED; SERVICES PETROLIERS SCHLUMBERGER
 PAS SCHLUMBERGER HOLDINGS; SCHLUMBERGER SERVICES PETROL
 PAA VG; FR
 TL English; French; German
 LA English
 DT Patent
 PIT EPB1 PATENT
 PI EP 939910 B1 20000726
 DS R: DE FR IT NL SE
 AI EP 1997-950296 A 19971219
 PRAI WO 1997-GB3507 W 19971219
GB 1996-26442 A 19961220

PATENT FAMILY INFORMATION

AN 112919635 INPADOC

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 GB 1996-19699 A 19960920

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US 1999-284030 B1 19990406
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 WO 1997-GB2536 W 19970919

WO 1997-GB3507 W 19971219

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 GB 1997-26974 A 19971219
 GB 1999-5764 A 19970919
 US 1999-269016 A 19990317
 WO 1997-GB2536 A 19970919
 AU 1998-53305 A 19971219
 DE 1997-69702673 A 19971219
 EP 1997-950296 A 19971219
 GB 1996-26442 A 19961220
 GB 1997-26974 A 19971219
 NO 1999-2701 A 19990603
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 EP 1997-919171 A 19970919
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 EP 1997-950296 A 19971219
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 EP 1997-950296 A 19971219

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 AU 734810 B2 20010621
 AU 9853305 A1 19980717
 DE 69702673 C0 20000831
 DE 69702673 T2 20010405
 EP 932843 A1 19990804
 EP 939910 A1 19990908
 EP 939910 B1 20000726

25/07/2003

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WO 1997-GB2536	A	19970919	WO 9812577	A1 19980326
WO 1997-GB3507	A	19971219	WO 9828636	A1 19980702

6 priorities, 14 applications, 23 publications

L2 ANSWER 5 OF 9 INPADOC COPYRIGHT 2003 EPO on STN

LEVEL 4

AN 111417686 INPADOC ED 20010709 EW 200127 UP 20010709 UW 200127
 TI KONTROLLINNRETNINGER FOR AA KONTROLLERER BAADE HORIZONTAL OG VERTIKAL
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 IN BITTLESTON, SIMON HASTINGS
 INS BITTLESTON SIMON HASTINGS
 INA NO
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 PAS SCHLUMBERGER HOLDINGS
 PAA VG
 DT Patent
 PIT NOB1 GRANTED PATENT (LAW 1997)
 PI NO 310127 B1 20010521
 AI NO 1999-2701 A 19990603
 PRAI **GB 1996-26442** **A 19961220**
 WO 1997-GB3507 W 19971219

PATENT FAMILY INFORMATION

AN 111417686 INPADOC

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WO 1997-GB2536	A	19970919	WO 9812577	A1 19980326
WO 1997-GB3507	A	19971219	WO 9828636	A1 19980702

6 priorities, 14 applications, 23 publications

L2 ANSWER 6 OF 9 INPADOC COPYRIGHT 2003 EPO on STN

LEVEL 2

AN 48900033 INPADOC ED 20010730 EW 200130 UP 20010730 UW 200130
 TI CONTROL DEVICES FOR CONTROLLING THE POSITION OF A MARINE SEISMIC STREAMER
 IN SIMON HASTINGS BITTLESTON
 INS BITTLESTON SIMON HASTINGS
 PA SCHLUMBERGER HOLDINGS LIMITED
 PAS SCHLUMBERGER HOLDINGS
 DT Patent
 PIT AUB2 PATENT (APP. ADVERTISED ACCEPTED)
 PI AU 734810 B2 20010621
 AI AU 1998-53305 A 19971219
 PRAI **GB 1996-26442** **A 19961220**
 WO 1997-GB3507 W 19971219

PATENT FAMILY INFORMATION

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 GB 1999-5764 A 19970919
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 DE 69702673 T2 20010405
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US 2001-893234	A 20010626	US 2002126575	AA 20020912
WO 1997-GB2536	A 19970919	WO 9812577	A1 19980326
WO 1997-GB3507	A 19971219	WO 9828636	A1 19980702

6 priorities, 14 applications, 23 publications

L2 ANSWER 7 OF 9 INPADOC COPYRIGHT 2003 EPO on STN

LEVEL 1

AN 47322455 INPADOC EW 199829 UP 20011203 UW 200148
 TI CONTROL DEVICES FOR CONTROLLING THE POSITION OF A MARINE SEISMIC STREAMER
 IN BITTLESTON, SIMON, HASTINGS
 INS BITTLESTON SIMON HASTINGS
 INA NO
 PA GECO AS; BITTLESTON, SIMON, HASTINGS
 PAS GECO AS; BITTLESTON SIMON HASTINGS
 PAA NO; NO
 TL English; French
 LA English
 DT Patent
 PIT WOA1 PUBL.OF THE INT.APPL. WITH INT.SEARCH REPORT
 PI WO 9828636 A1 19980702
 DS RW: GH GM KE LS MW SD SZ UG ZW AT BE CH DE DK ES FI FR GB GR IE IT LU MC
 NL
 W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GE GH HU
 IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ
 PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW AM AZ
 BY KG KZ MD RU TJ TM

AI WO 1997-GB3507 A 19971219

PRAI **GB 1996-26442** A **19961220**

OSDW 98-377798

AB. A control device (10) (or "bird") for controlling the position of a marine seismic streamer is provided with an elongate, partly flexible, body (12) which is designed to be connected electrically and mechanically in series with the streamer (14). In its preferred form, the bird has two opposed wings (24), which are independently controllable in order to control the streamers lateral position, as well as its depth.

PATENT FAMILY INFORMATION

AN 47322455 INPADOC

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GB 1996-26442 A 19961220

US 1999-284030 B1 19990406
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 AU 1997-43104 A 19970919
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 GB 1997-26974 A 19971219
 GB 1999-5764 A 19970919
 US 1999-269016 A 19990317
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 NO 1999-2701 A 19990603
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NO 1999-2701

A 19990603

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AU 1997-43104      A 19970919
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NO 9902701         A0 19990603
US 6353577         BA 20020305
US 2002126575      AA 20020912
WO 9812577         A1 19980326
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6 priorities, 14 applications, 23 publications

L2 ANSWER 8 OF 9 INPADOC COPYRIGHT 2003 EPO on STN

LEVEL 3

AN 41972116 INPADOC ED 19991130 EW 199947 UP 20011203 UW 200148
 TI CONTROL DEVICES FOR CONTROLLING THE POSITION OF A MARINE SEISMIC STREAMER
 IN SIMON HASTINGS * BITTLESTON
 INS BITTLESTON SIMON HASTINGS
 INA NO
 PA * GECO A S; * SCHLUMBERGER HOLDINGS LIMITED
 PAS GECO AS; SCHLUMBERGER HOLDINGS
 PAA NO; VG
 DT Patent
 PIT GBB2 PATENT GRANTED
 PI GB 2331971 B2 19991117
 AI GB 1997-26974 A 19971219
 PRAI **GB 1996-26442** **A 19961220**
 GB 1996-19699 A 19960920

PATENT FAMILY INFORMATION

AN 41972116 INPADOC

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WO 1997-GB2536	A 19970919	WO 9812577	A1 19980326
WO 1997-GB3507	A 19971219	WO 9828636	A1 19980702

6 priorities, 14 applications, 23 publications

L2 ANSWER 9 OF 9 INPADOC COPYRIGHT 2003 EPO on STN

LEVEL 1

AN 19448004 INPADOC
 TI CONTROL DEVICES FOR CONTROLLING THE POSITION OF A MARINE SEISMIC STREAMER
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 PAS GECO AS
 DT Patent
 PIT GBA0 APPLICATION FOR PATENT
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 AI **GB 1996-26442 A 19961220**
 PRAI **GB 1996-26442 A 19961220**

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6 priorities, 14 applications, 23 publications